Flight Management System

Version 1.0

Revision History

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| --- | --- | --- | --- |
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| 11/Apr/2015 | 1.0 | Created the use case specification and description document | Michael Kong |
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# Introduction

## Brief Description

This document covers all the use cases involved in the Flight Management System. Each use case description will cover exactly one use case as presented in the use case diagram. A single use case description contains the use case name, the use case ID, the stakeholders and goals, the description of the use case in question, the participating actors, the trigger that activates this use case, and the flow of events including normal flows, sub-flows and exceptional flows.

## Glossary of Terms

**User** – When in used in context of a use case description, it refers to the actors of that use case in question.

**User** **credentials** – This refers to the email and password of the system’s user that will be used as the primary means of identifying each user of the system.

**User details** – Refers to the details of the user that are: title, first name, last name, gender, date of birth, phone number, email, street address, state, city, country, credit card type, credit card number, and whether they hold a passport.

# Use Case Descriptions

## Use Case: Login

|  |  |
| --- | --- |
| **Name:** Login | **ID:** 1 |
| **Stakeholders and goals:**  Airline customers and airline staff – Need to login to the system to access the functions of the system. | |
| **Description:** A user must enter their user credentials into the system through the interface to access the functionality of the system. | |
| **Actors:** Travel agency, Customer, Normal Staff, Service System Manager, Flight Manager, System Administrator, Reservation System Manager, Profile System Manager, Reporting System Manager | |
| **Trigger:** A user accesses the login interface of the system. | |
| **Normal flow:**   1. User enters user credentials into the system. 2. System checks the user credentials with the database. 3. If the user credentials are correct, the user is logged in and system displays the appropriate user interface for that particular user. 4. End | |
| **Sub-flows:** None | |
| **Alternative/Exceptional flows:**  2a Incorrect user credentials entered: The *Enter Wrong Credentials* use case is performed. | |

## Use Case: Enter Wrong Credentials

|  |  |
| --- | --- |
| **Name:** Enter Wrong Credentials | **ID:** 2 |
| **Stakeholders and goals:**  Airline customers and airline staff – Inform the user that the user credentials that were entered into the system are incorrect and perform the Login use case again. | |
| **Description:** A user has entered incorrect user credentials into the system. | |
| **Actors:** Travel agency, Customer, Normal Staff, Service System Manager, Flight Manager, System Administrator, Reservation System Manager, Profile System Manager, Reporting System Manager | |
| **Trigger:** A user of the system enters the wrong credentials into the system. | |
| **Normal flow:**   1. System finds a mismatch in the user credentials and cannot find the corresponding user credentials. 2. System displays an error message on the user interface. 3. User performs *Login* use case. 4. End | |
| **Sub-flows:** None | |
| **Alternative/Exceptional flows:** None | |

## Use Case: Signup

|  |  |
| --- | --- |
| **Name:** Signup | **ID:** 3 |
| **Stakeholders and goals:**  Airline customers – A new airline customer wants to create a new account in the system to access the functionality of the system. | |
| **Description:** A customer or travel agency wants to create a new account | |
| **Actors:** Travel agency, Customer | |
| **Trigger:** A user accesses the signup interface of the system. | |
| **Normal flow:**   1. User enters user details into the system. 2. System checks validity of user details. 3. User performs *Login* use case. 4. End | |
| **Sub-flows:** None | |
| **Alternative/Exceptional flows:**  2a Invalid details are entered: The *Enter Invalid Details* use case is performed. | |

## Use Case: Enter Invalid Details

|  |  |
| --- | --- |
| **Name:** Enter Invalid Details | **ID:** 4 |
| **Stakeholders and goals:**  Airline customers – Inform the user that the user details that were entered into the system are invalid and perform the Signup use case again. | |
| **Description:** A user has entered invalid user details into the system | |
| **Actors:** Travel agency, Customer | |
| **Trigger:** A user of the system enters invalid details into the system. | |
| **Normal flow:**   1. System finds that the user details do not match the expected format for a particular field or the entered email already exists in the database. 2. System displays an error message on the user interface. 3. User performs *Signup* use case. 4. End | |
| **Sub-flows:** None | |
| **Alternative/Exceptional flows:** None | |

## Use Case: Cancel Booking

|  |  |
| --- | --- |
| **Name:** Cancel Booking | **ID:** 5 |
| **Stakeholders and goals:**  Airline customers – Wants to cancel a flight booking that was previously made. | |
| **Description:** The user wants to cancel a flight booking, but they will be charged a cancellation fee. | |
| **Actors:** Travel agency, Customer | |
| **Trigger:** A user of the system enters invalid details into the system. | |
| **Normal flow:**   1. User performs *Login* use case. 2. User performs *Signup* use case. 3. End | |
| **Sub-flows:** None | |
| **Alternative/Exceptional flows:** None | |